By means of this simultaneous study of the weather and the rapid centralization of meteorological observations by radio there is obtained a complete survey of the weather

from one extreme of the Republic to the other.

Each day at noon the Oficina Meteorológica de la Aviación issues through the radio station El Bosque a meteorogram with information of the weather, and forecasts, for each zone of the country. The weather data are noted on blackboards and bulletin boards near the meteorological maps.

In addition to this regular service there is given to every pilot on request a meteorogram setting forth the state of the atmosphere along the proposed route at the

If a pilot must depart from Arica he collects information on the state of the atmosphere through radio in a very short time and can have an exact knowledge of the meteorological conditions that he will encounter.

Under the Dirección de Aeronáutica there is a Sección Meteorológica in charge of statistical data and meteorological observations at the aerial bases in Chile. Meteorological maps are drawn daily, the observations made on the route sheets are entered in graphs, the elaboration of aerial navigation charts is studied, pamphlets containing meteorological instructions to pilots are published, and studies of the meteorological conditions along each route are made public.

In the aviation school at El Bosque there is a 2-years course in meteorology for the proper preparation of pilots. (Translated by W. W. R.)

## AERONAUTICAL METEOROLOGY IN GERMANY

In my article with this title in the Monthly Weather Review, November 1932 the date, April 1927 given for the beginning of daily airplane observations, refers to the daily flights to 5,000 meters or higher, as now made in this country. Airplane observations at lower levels, however, were begun in 1921 by the Lindenberg Observatory, in 1922 by the Seewarte at Hamburg, and in 1927 by the

three other airplane observatories in Germany.

At the present time (1933) 19 airport observatories in Germany, the most important of which are in constant communication by private wire, are furnished the three hourly reports of surface conditions at about 200 stations; reports of the winds aloft at about 20 pilot-balloon stations; the daily airplane observations at Berlin, Hamburg, Koenigsberg, Darmstadt, and Munich; data from the kite station on Lake Constance, and from the captive balloon, kite, and sounding balloon flights at the Lindenberg Aeronautical Observatory; and observations received

from surrounding countries by exchange.

A diagnosis of weather conditions is prepared by each airport observatory, from its own standpoint. This is regarded as especially important since nearly every airway passes over one or more mountains. The aim of the German airways service, as of course of all other such services, is to keep pilots fully informed of the weather, actual and imminent, both before taking off and while in flight. Information to the pilot in flight is transmitted from the broadcasting stations that serve as radio-beacons and for place and direction finding.—Eric R. Miller.

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